

What is claimed is:

1. A chemical amplifying type positive resist composition comprising (A) a resin becoming alkali-soluble due to the action of an acid, (B) an acid generating agent, (C) a basic compound, and (D) a polyvalent carboxylic acid ester.

2. The chemical amplifying type positive resist composition according to claim 1, wherein the component (A) has at least one type of polymerization unit selected from those derived from monomers having an adamantane group.

3. The chemical amplifying type positive resist composition according to claim 1, wherein the component (A) has a polymerization unit derived from (meta)acrylic acid 2-methyl-2-adamantyl or (meta)acrylic acid 2-ethyl-2-adamantyl.

4. The chemical amplifying type positive resist composition according to claim 1, wherein a resin having a polymerization unit derived from hydroxystyrene and a polymerization unit derived from (meta)acrylic acid 2-methyl-2-adamantyl or (meta)acrylic acid 2-ethyl-2-adamantyl is used as the component (A).

5. The chemical amplifying type positive resist composition according to claim 1, wherein the component (B) is selected from onium salt compounds, organo-halogen compound of triazine type, sulfone compounds and sulfonate compounds.

6. The chemical amplifying type positive resist composition according to claim 1, wherein the component (C) is selected from basic nitrogen-containing organic compounds.

7. The chemical amplifying type positive resist composition

according to claim 1, wherein the component (C) is selected from amines.

8. The chemical amplifying type positive resist composition according to claim 1, wherein the component (C) is selected from adipic acid esters, sebacic acid esters, azelaic acid esters, maleic acid esters, citric acid esters and phthalic acid esters.

9. The chemical amplifying type positive resist composition according to claim 1, wherein the component (C) is selected from di-n-hexyl adipate, n-hexyl-n-octyl adipate, di-2-ethylhexyl adipate, n-hexyl-n-decyl adipate, di-n-octyl adipate, diisononyl adipate, n-octyl-n-decyl adipate, di-n-decyl adipate, di-2-ethylhexyl sebacate, di-2-ethylhexyl azelate, di-2-ethylhexyl maleate, O-acetyl tributyl citrate and di-2-ethylhexyl phthalate.

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